

UNSATURATED POLYESTER RESIN COMPOSITIONS CONTAINING COMPATIBLE COMPOUNDS

Patent Number: US5162401
Publication date: 1992-11-10
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Requested
Patent: CN1052490
Application
Number: US19900517775 19900502
Priority Number
(s): US19900517775 19900502; US19890428548 19891030
IPC
Classification: C08K5/01
EC
Classification: C08L67/06
Equivalents: AU6730090, BR9006979, CA2026636, CN1030713B, DE69031800D,
EP0451258 (WO9106604), B1, ES2113863T, JP4502645T,
WO9106604

Abstract

A sheet molding composition is disclosed which includes a four component resinous system which comprises (a) an unsaturated polyester comprising a polycondensation product of one or more dihydric alcohols and one or more ethylenically unsaturated polycarboxylic acids; (b) one or more low-profile additives which are thermoplastic polymers which cause phase separation and porosity during the curing reaction; (c) one or more olefinically unsaturated monomers which copolymerize with the unsaturated polyester; and, (d) one or more compatible components comprising at least one compound containing one or more polyoxyethane substituents. The compatible component remains compatible when the polyester and monomer cure and imparts improved surface characteristics when added to low-profile resin systems.

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